

FIG. 1

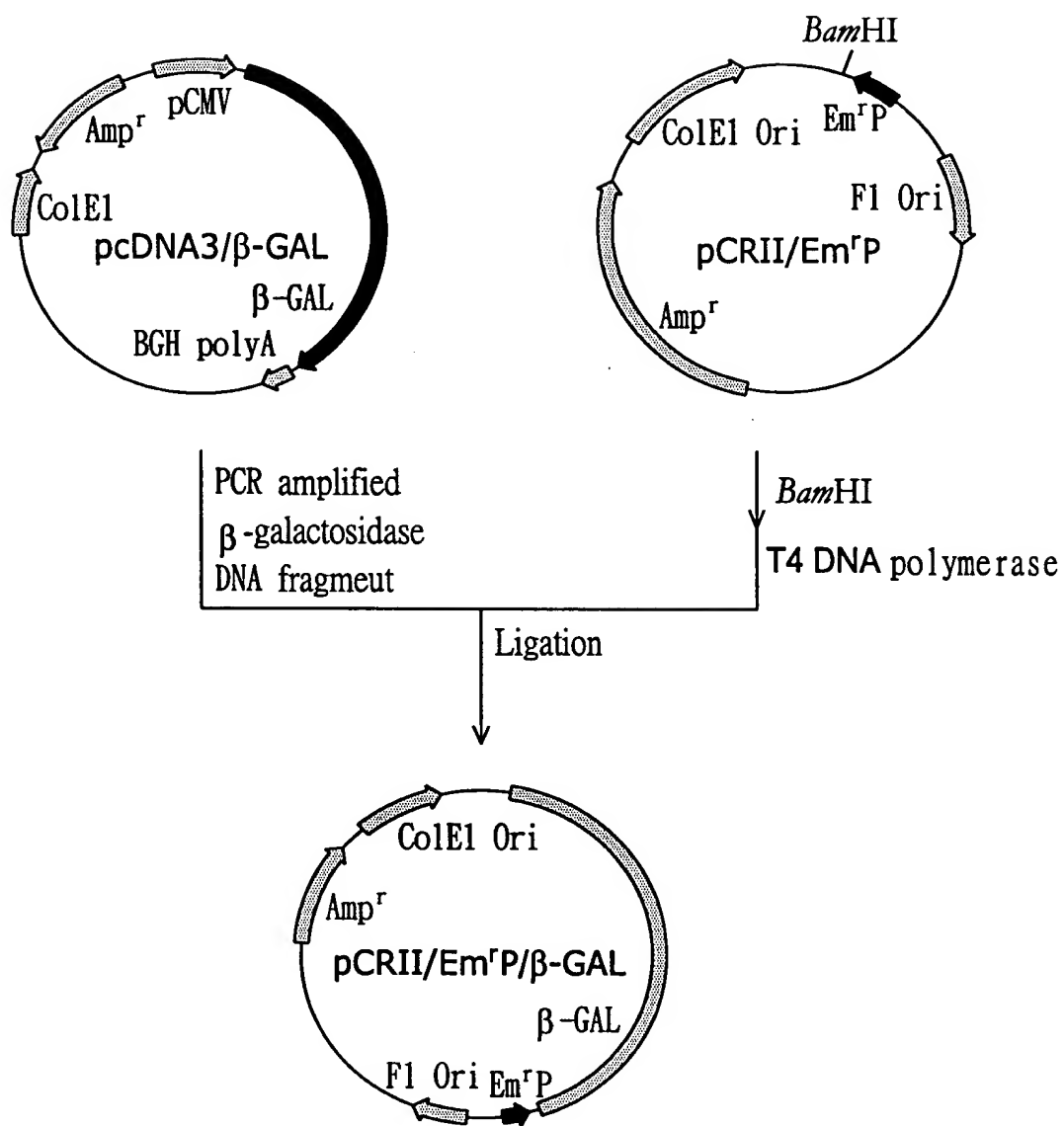


FIG. 2

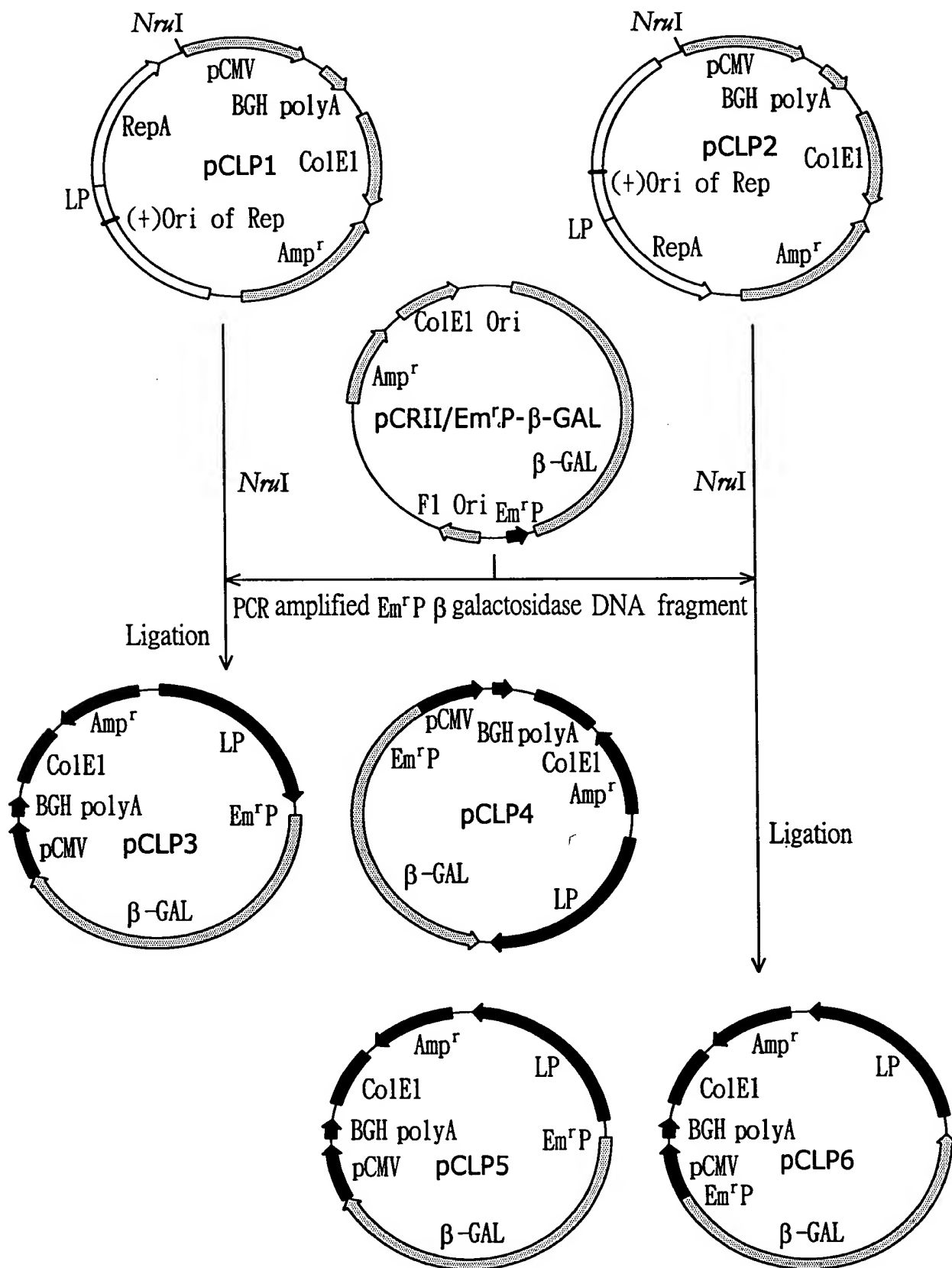


FIG. 3

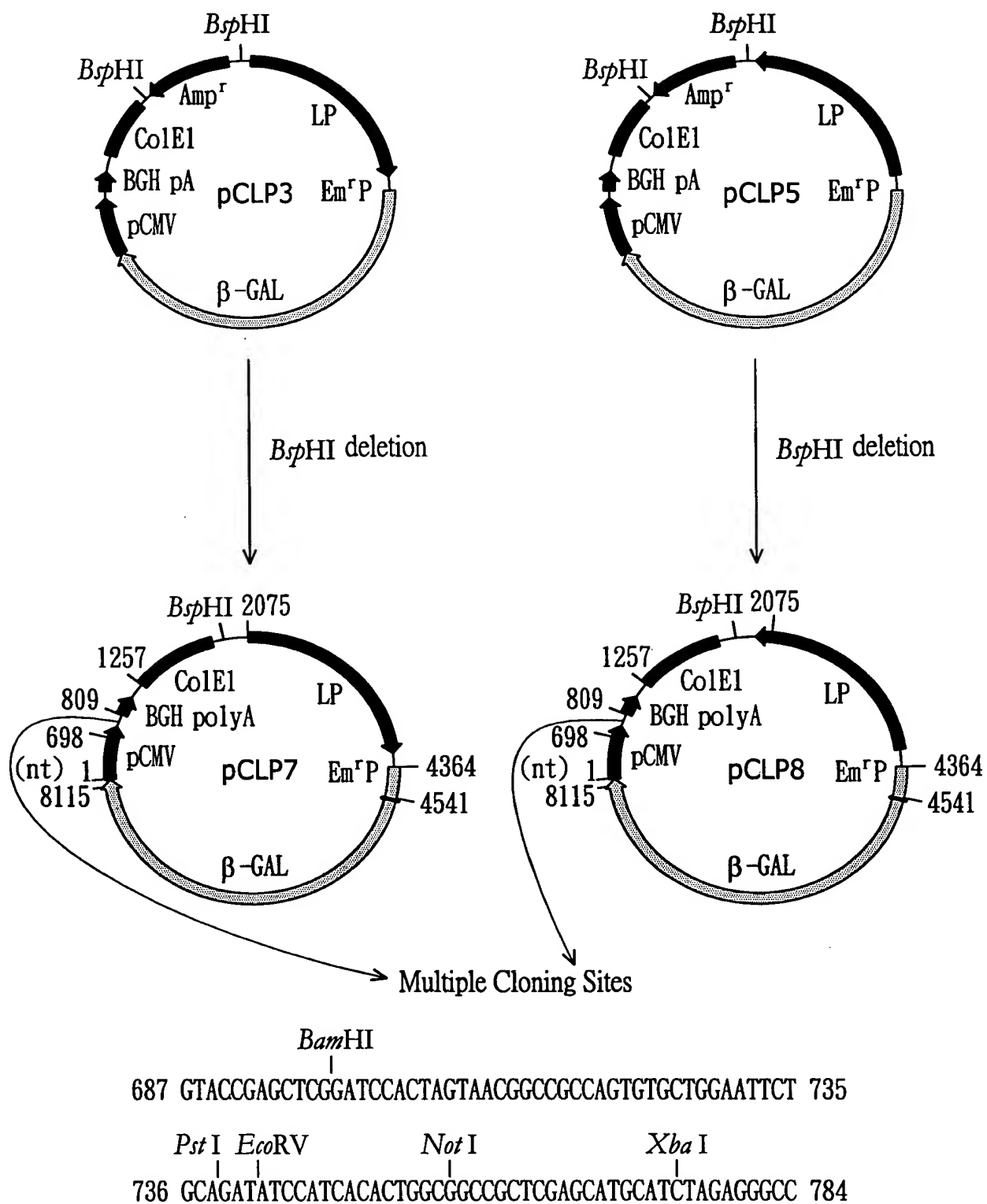


FIG. 4

10	20	30	40	50	60
GATGTACGGG	CCAGATATAC	GCGTTGACAT	TGATTATTGA	CTAGTTATTA	ATAGTAATCA
70	80	90	100	110	120
ATTACGGGGT	CATTAGTTCA	TAGCCCATAT	ATGGAGTTCC	GCGTTACATA	ACTTACGGTA
130	140	150	160	170	180
AATGGCCCCG	CTGGCTGACC	GCCCAACGAC	CCCCGCCCAT	TGACGTCAAT	AATGACGTAT
190	200	210	220	230	240
GTTCCCATAG	TAACGCCAAT	AGGGACTTTC	CATTGACGTC	AATGGGTGGA	CTATTTACGG
250	260	270	280	290	300
TAAACTGCCC	ACTTGGCAGT	ACATCAAGTG	TATCATATGC	CAAGTACGCC	CCCTATTGAC
310	320	330	340	350	360
GTCAATGACG	GTAAATGGCC	CGCCTGGCAT	TATGCCCAGT	ACATGACCTT	ATGGGACTTT
370	380	390	400	410	420
CCTACTTGGC	AGTACATCTA	CGTATTAGTC	ATCGCTATTA	CCATGGTGAT	GCGGTTTTGG
430	440	450	460	470	480
CAGTACATCA	ATGGGCGTGG	ATAGCGGTTT	GACTCACGGG	GATTTCCAAG	TCTCCACCCC
490	500	510	520	530	540
ATTGACGTCA	ATGGGAGTTT	GTTTTGGCAC	CAAAATCAAC	GGGACTTTCC	AAAATGTCGT
550	560	570	580	590	600
AACAACCTCCG	CCCCATTGAC	GCAAATGGGC	GGTAGGCGTG	TACGGTGGA	GGTCTATATA
610	620	630	640	650	660
AGCAGAGCTC	TCTGGCTAAC	TAGAGAACCC	ACTGCTTACT	GGCTTATCGA	AATTAATACG
670	680	690	700	710	720
ACTCACTATA	GGGAGACCCA	AGCTTGGTAC	CGAGCTCGGA	TCCACTAGTA	ACGGCCGCCA
730	740	750	760	770	780
GTGTGCTGGA	ATTCTGCAGA	TATCCATCAC	ACTGGCGGCC	GCTCGAGCAT	GCATCTAGAG
790	800	810	820	830	840
GGCCCTATTTC	TATAGTGTCA	CCTAAATGCT	AGAGCTCGCT	GATCAGCCTC	GACTGTGCCT
850	860	870	880	890	900
TCTAGTTGCC	AGCCATCTGT	TGTTTGCCCC	TCCCCCGTGC	CTTCCTTGAC	CCTGGAAGGT
910	920	930	940	950	960
GCCACTCCCA	CTGTCTTTTC	CTAATAAAAT	GAGGAAATTG	CATCGCATTG	TCTGAGTAGG
970	980	990	1000	1010	1020
TGTCATTCTA	TTCTGGGGGG	TGGGGTGGGG	CAGGACAGCA	AGGGGGAGGA	TTGGGAAGAC
1030	1040	1050	1060	1070	1080
AATAGCAGGC	ATGCTGGGGA	TGCGGTGGGC	TCTATGGCTT	CTGAGGCGGA	AAGAACCAGC
1090	1100	1110	1120	1130	1140
TGCATTAATG	AATCGGCCAA	CGCGCGGGGA	GAGGCGGTTT	GCGTATTGGG	CGCTCTTCCG
1150	1160	1170	1180	1190	1200
CTTCCTCGCT	CACTGACTCG	CTGCGCTCGG	TCGTTCCGGT	GCGGCGAGCG	GTATCAGCTC

FIG. 5A

FIG. 5B

FIG. 5C

FIG. 5D

FIG. 5E

FIG. 5F

FIG. 5G

FIG. 5A

1210	1220	1230	1240	1250	1260
ACTCAAAGGC	GGTAATACGG	TTATCCACAG	AATCAGGGGA	TAACGCAGGA	AAGAACATGT
1270	1280	1290	1300	1310	1320
GAGCAAAAGG	CCAGCAAAAG	GCCAGGAACC	GTAAAAAGGC	CGCGTTGCTG	GCGTPTTTTCC
1330	1340	1350	1360	1370	1380
ATAGGCTCCG	CCCCCCTGAC	GAGCATCACA	AAAATCGACG	CTCAAGTCAG	AGGTGGCGAA
1390	1400	1410	1420	1430	1440
ACCCGACAGG	ACTATAAAGA	TACCAGGCGT	TTCCCCCTGG	AAGCTCCCTC	GTGCGCTCTC
1450	1460	1470	1480	1490	1500
CTGTTCCGAC	CCTGCCGCTT	ACCGGATACC	TGTCCGCCTT	TCTCCCTTCG	GGAAGCGTGG
1510	1520	1530	1540	1550	1560
CGCTTTCTCA	ATGCTCACGC	TGTAGGTATC	TCAGTTCGGT	GTAGGTCGTT	CGCTCCAAGC
1570	1580	1590	1600	1610	1620
TGGGCTGTGT	GCACGAACCC	CCCGTTCAGC	CCGACCGCTG	CGCCTTATCC	GGTAACTATC
1630	1640	1650	1660	1670	1680
GTCTTGAGTC	CAACCCGGTA	AGACACGACT	TATCGCCACT	GGCAGCAGCC	ACTGGTAACA
1690	1700	1710	1720	1730	1740
GGATTAGCAG	AGCGAGGTAT	GTAGGCGGTG	CTACAGAGTT	CITGAAGTGG	TGGCCTAAC T
1750	1760	1770	1780	1790	1800
ACGGCTACAC	TAGAAGGACA	GTATTTGGTA	TCTGCGCTCT	GCTGAAGCCA	GTTACCTTCG
1810	1820	1830	1840	1850	1860
GAAAAAGAGT	TGGTAGCTCT	TGATCCGGCA	AACAAACCAC	CGCTGGTAGC	GGTGGTTTTT
1870	1880	1890	1900	1910	1920
TTGTTTGCAA	GCAGCAGATT	ACGCGCAGAA	AAAAAGGATC	TCAAGAAGAT	CCTTTGATCT
1930	1940	1950	1960	1970	1980
TTTCTACGGG	GTCTGACGCT	CAGTGGAACG	AAAAC TCACG	TTAAGGGATT	TTGGTCATGA
1990	2000	2010	2020	2030	2040
GCGGATACAT	ATTTGAATGT	ATTTAGAAAA	ATAAACAAAT	AGGGGTTC CG	CGCACATTTT
2050	2060	2070	2080	2090	2100
CCCGAAAAGT	GCCACCTGAC	GTCGACGGAT	CGGGAGATCA	ACGGTAAATC	CGTTGGCATA
2110	2120	2130	2140	2150	2160
TCCCTTTTTT	GTTGTCAGCT	TGCTGACTTC	TGATACAGGT	TTTAGCATT A	CTCCAATTTA
2170	2180	2190	2200	2210	2220
TTTGGAGTGT	AAGTGCACAT	TATCATGTAG	TGCGCATTAT	CATGTAGTGC	GCATTATCAT
2230	2240	2250	2260	2270	2280
GTAGTGCGCA	TTATCATGTA	GTGCGCATT A	TCATGTAGTG	CGCATTATCA	TGTAGTGCGC
2290	2300	2310	2320	2330	2340
ATTATCATGT	AGTGCGCACA	TTATCATGTA	CATTATCATG	TAGTGCGCAT	TATCATGTAG
2350	2360	2370	2380	2390	2400
TGCGCACATT	ATCATGTAGT	GCGCATTATC	ATGTAGTGCG	CATTATCATG	TAGTGCGCAC

FIG. 5B

3610	3620	3630	3640	3650	3660
ATAAAAAAGT	GACTAAAAAT	TTATTGGGTT	ATTTACGTTT	AACGGAAATT	ACCGTTAATG
3670	3680	3690	3700	3710	3720
AACAAGACGG	GTCATATAAT	CAACACTTGC	ATGTGTTGCT	GTTTGTAAAA	TCAAGTTATT
3730	3740	3750	3760	3770	3780
TTAAGAATTC	AAATAATTAT	TTAGCACAAG	CAGAAATGGG	AAAATTATGG	CAAAAAGCCT
3790	3800	3810	3820	3830	3840
TGAAAGTTGA	TTATGAGCCT	GTGGTGCATG	TGCAGGCTGT	TAAAGCTAAC	AAACGTAAAG
3850	3860	3870	3880	3890	3900
GAAGTGAATC	TTTGCAAGCT	AGTGCCGAAG	AAACGGCGAA	ATACGAGGTA	AAATCAGCTG
3910	3920	3930	3940	3950	3960
ATTATATGAC	GGCTGATGAT	GAGCGTAATT	TGGTGGTGAT	TAAAAATTTG	GAGTATGCCT
3970	3980	3990	4000	4010	4020
TAGCTGGAAC	ACGACAAATC	AGCTATGGTG	GATTATTAAA	GCAAATTAAG	CAAGATTTGA
4030	4040	4050	4060	4070	4080
AACTTGAAGA	TGTTGAGAAT	GGTGATTTAG	TTCATGTTGG	CGATGAAGAT	TACACCAAAG
4090	4100	4110	4120	4130	4140
AGCAAATGGA	AGCTGCGGAA	GAAGTTGTCT	CAAAATGGGA	TTTTAATAAA	CAAAATTATT
4150	4160	4170	4180	4190	4200
TTATTTGGTA	AAGAGAATGT	CAGGATATGA	TCTCCCGATC	CCCTATGGTC	GACTCTCAGT
4210	4220	4230	4240	4250	4260
ACAATCTGCT	CTGATGCCGC	ATAGTTAAGC	CAGTATCTGC	TCCCTGCTTG	TGTGTTGGAG
4270	4280	4290	4300	4310	4320
GTCGCTGAGT	AGTGCGCGAG	CAAAATTTAA	GCTACAACAA	GGCAAGGCTT	GACCGACAAT
4330	4340	4350	4360	4370	4380
TGCATGAAGA	ATCTGCTTAG	GGTTAGGCGT	TTTGCGCTGC	TTGCTTAGAA	GCAAACCTAAG
4390	4400	4410	4420	4430	4440
AGTGTGTTGA	GTAGTGCAAT	ATCTTAAAAA	TTTGTATAAT	AGGAATTGAA	GTTAAATTAG
4450	4460	4470	4480	4490	4500
ATGCTAAAAA	TTTGTAATTA	AGAAGGAGTG	ATTACATGAT	TGGCAGCCAG	TCTCCGGGCA
4510	4520	4530	4540	4550	4560
ATTAATGAAC	TTGGACATGG	TTGACGACCC	GGTCTTTGCA	AGCCGAATTC	GACCACACTG
4570	4580	4590	4600	4610	4620
GCGGCCGTTA	CTAGGGTATC	GATCCGATAA	AAAGTTAGGC	GACGGCTTTG	CCCTGGTGCC
4630	4640	4650	4660	4670	4680
AGCAGACGGT	AAGGTCTACG	CGCCATTTGC	CGGTACTGTC	CGCCAGCTGG	CCAAGACCCG
4690	4700	4710	4720	4730	4740
GCACTCGATC	GTCCTGGAAA	ATGAACATGG	GGTCTTGGTC	TTGATTACAC	TTGGCCTGGG
4750	4760	4770	4780	4790	4800
CACGGTCAAA	TTAAACGGGA	CTGGCTTTGT	CAGCTATGTT	GAAGAGGGCA	GCCAGGTAGA

FIG. 5D

4810	4820	4830	4840	4850	4860
AGCCGGCCAG	CAGATCCTGG	AATTCTGGGA	CCCGGCGATC	AAGCAGGCCA	AGCTGGACGA
4870	4880	4890	4900	4910	4920
CACGGTAATC	GTGACCGTCA	TCAACAGCGA	AACTTTTACA	AATAGCCAGA	TGCTCTTGCC
4930	4940	4950	4960	4970	4980
GATCGGCCAC	AGCGTCCAAG	CCCTGGATGA	TGTATTCAAG	TTAGAAGGGA	AGAATTAGAA
4990	5000	5010	5020	5030	5040
AATGAGCAAT	AAGTTAGTAA	AAGAAAAAAG	AGTTGACCAG	GCAGACCTGG	CCTGGCTGAC
5050	5060	5070	5080	5090	5100
TGACCCGGAA	GTTTACGAAG	TCAATACAAT	TCCCCCGCAC	TCCGACCATG	AGTCCTTCCA
5110	5120	5130	5140	5150	5160
AAGCCAGGAA	GAAGTGGAGG	AGGGCAAGTC	CAGTTTAGTG	CAGTCCCTGG	ACGGGGACTG
5170	5180	5190	5200	5210	5220
GCTGATTGAC	TACGCTGAAA	ACGGCCAGGG	ACCAGTCAAC	TTCTATGCAG	AAGACTTTGA
5230	5240	5250	5260	5270	5280
CGATAGCAAT	TTTAAGTCAG	TCAAAGTACC	CGGCAACCTG	GAAGTGAAG	GCTTTTGGCCA
5290	5300	5310	5320	5330	5340
GCCCCAGTAT	GTCAACGTCC	AATATCCATG	GGACGGCAGT	GAGGAGATTT	TCCCGCCCCA
5350	5360	5370	5380	5390	5400
AATTCCAAGC	AAAAATCCGC	TCGCTTCTTA	TGTCAGATAC	TTTGACCTGG	ATGAAGCTTT
5410	5420	5430	5440	5450	5460
CTGGGACAAG	GAAATCAGCT	TGAAGTTTGA	CGGGGCGGCA	ACAGCCATCT	ATGTCTGGCT
5470	5480	5490	5500	5510	5520
GAACGGCCAC	TTCGTGCGCT	ACGGGGAAGA	CTCCTTTACC	CCAAGCGAGT	TTATGGTTAC
5530	5540	5550	5560	5570	5580
CAAGTTCCCTC	AAGAAAGAAA	ATAACCGCCT	GGCAGTGGCT	CTCTACAAGT	ATTCTTCCGC
5590	5600	5610	5620	5630	5640
CTCCTGGCTG	GAAGACCAGG	ACTTCTGGCG	CATGTCTGGT	TTGTTTCAAT	CAGTGACTCT
5650	5660	5670	5680	5690	5700
TCAGGCCAAG	CCGCGTCTGC	ACTTGGAGGA	CCTTAAGCTT	ACGGCCAGCT	TGACCGATAA
5710	5720	5730	5740	5750	5760
CTACCAAAAA	GGAAAGCTGG	AAGTCGAAGC	CAATATTGCC	TACCGCTTGC	CAAATGCCAG
5770	5780	5790	5800	5810	5820
CTTTAAGCTG	GAAGTGCGGG	ATAGTGAAGG	TGACTTGGTT	GCTGAAAAGC	TGGGCCCCAAT
5830	5840	5850	5860	5870	5880
CAGAAGCGAG	CAGCTGGAAT	TCACTCTGGC	TGATTTGCCA	GTAGCTGCCT	GGAGCGCGGA
5890	5900	5910	5920	5930	5940
AAAGCCTAAC	CTTTACCAGG	TCCGCCTGTA	TTTATACCAG	GCAGGCAGCC	TCTTAGAGGT
5950	5960	5970	5980	5990	6000
TAGCCGGCAG	GAAGTGGGTT	TCCGCAACTT	TGAACTAAAA	GACGGGATTA	TGTACCTTAA

FIG. 5E

6010	6020	6030	6040	6050	6060
CGGCCAGCGG	ATCGTCTTCA	AGGGGGCCAA	CCGGCACGAA	TTTGACAGTA	AGTTGGGTCC
6070	6080	6090	6100	6110	6120
GGCTATCACG	GAAGAGGATA	TGATCTGGGA	CATCAAGACC	ATGAAGCGAA	GCAACATCAA
6130	6140	6150	6160	6170	6180
TGCTGTCCGC	TGCTCTCACT	ACCCGAACCA	GTCCCTCTTT	TACCGGCTCT	GTGACAAGTA
6190	6200	6210	6220	6230	6240
CGGCCTTTAC	GTCATTGATG	AAGCTAACCT	GGAAAGCCAC	GGCACCTGGG	AAAAAGTGGG
6250	6260	6270	6280	6290	6300
GGGGCACGAA	GATCCTAGCT	TCAATGTTCC	AGGCGATGAC	CAGCATTTGGC	TGGGAGCCAG
6310	6320	6330	6340	6350	6360
CTTATCCCGG	GTGAAGAACA	TGATGGCTCG	GGACAAGAAC	CATGCTTCAA	TCCTAATCTG
6370	6380	6390	6400	6410	6420
GTCTTTAGGC	AATGAGTCTT	ACGCCGGCAC	TGTCTTTGCC	CAAATGGCTG	ATTACGTCCG
6430	6440	6450	6460	6470	6480
GAAGGCTGAT	CCGACCCGGG	TTCAGCACTA	TGAAGGGGTG	ACCCACAACC	GGAAGTTTGA
6490	6500	6510	6520	6530	6540
CGACGCCACC	CAGATTGAAA	GCCGGATGTA	TGCTCCGGCC	AAGGTAATTG	AAGAATACTT
6550	6560	6570	6580	6590	6600
GACCAATAAA	CCAGCCAAGC	CATTTATCTC	AGTTGAATAC	GCTCACGCCA	TGGGCAACTC
6610	6620	6630	6640	6650	6660
CGTCGGTGAC	CTGGCCGCCT	ACACGGCCCT	GGAAAAATAC	CCCCACTACC	AGGGCGGCTT
6670	6680	6690	6700	6710	6720
CATCTGGGAC	TGGATTGACC	AAGGACTGGA	AAAAGACGGG	CACCTGCTTT	ATGGGGGCGA
6730	6740	6750	6760	6770	6780
CTTCGATGAC	CGGCCAACCG	ACTATGAATT	CTGCGGGAAC	GGCCTGGTCT	TTGCTGACCG
6790	6800	6810	6820	6830	6840
GACTGAATCG	CCGAAACTGG	CTAATGTCAA	GGCCCTTTAC	GCCAACCTTA	AGTTAGAAGT
6850	6860	6870	6880	6890	6900
AAAAGATGGG	CAGCTCTTCC	TCAAAAACGA	CAATTTATTT	ACCAACAGCT	CATCTTACTA
6910	6920	6930	6940	6950	6960
CTTCTTGACT	AGTCTTTTGG	TCGATGGCAA	GTTGACCTAC	CAGAGCCGGC	CTCTGACCTT
6970	6980	6990	7000	7010	7020
TGGCCTGGAG	CCTGGCGAAT	CCGGGACCTT	TGCCCTGCCT	TGGCCGGAAG	TCGCTGATGA
7030	7040	7050	7060	7070	7080
AAAAGGGGAG	GTCGTCTACC	GGGTAACGGC	CCACTTAAAA	GAAGACTTGC	CTTGGGCGGA
7090	7100	7110	7120	7130	7140
TGAGGGCTTC	ACTGTGGCTG	AAGCAGAAGA	AGTAGCTCAA	AAGCTGCCGG	AATTTAAGCC
7150	7160	7170	7180	7190	7200
GGAAGGGCGG	CCAGATTTAG	TTGATTCCGA	CTACAACCTA	GGCCTGAAAG	GAAATAACTT

FIG. 5F

7210	7220	7230	7240	7250	7260
CCAAATTCTC	TTCTCCAAGG	TCAAGGGCTG	GCCGGTTTCC	CTCAAGTATG	CCGGTAGGGA
7270	7280	7290	7300	7310	7320
ATACTTGAAG	CGGCTGCCGG	AATTTACCTT	CTGGCGGGCC	CTGACGGACA	ACGACCGGGG
7330	7340	7350	7360	7370	7380
AGCTGGTTAC	GGCTATGATC	TGGCCCGGTG	GGAAAATGCC	GGCAAGTATG	CCCGCTTGAA
7390	7400	7410	7420	7430	7440
AGACATCAGC	TGCGAGGTCA	AGGAAGACTC	CGTTTTGGTC	AAGACTGCCT	TTACGTTGCC
7450	7460	7470	7480	7490	7500
TGTCGCCTTA	AAGGGTGATT	TAACCGTGAC	CTATGAAGTC	GATGGACGGG	GCAAGATTGC
7510	7520	7530	7540	7550	7560
TGTAACAGCT	GACTTCCCAG	GCGCGGAAGA	AGCTGGTCTC	TTGCCAGCCT	TTGGCTTGAA
7570	7580	7590	7600	7610	7620
CCTGGCCCTG	CCAAAAGAAC	TGACCGATTA	CCGCTACTAT	GGTCTGGGAC	CTAATGAGAG
7630	7640	7650	7660	7670	7680
CTACCCAGAC	CGCTTGGAAG	GTAATTACCT	GGGCATCTAC	CAGGGAGCGG	TAAAAAAGAA
7690	7700	7710	7720	7730	7740
CTTTAGCCCA	TATCGTCCGC	AGGAAACGGG	CAACCGGAGC	AAGGTTGCT	GGTACCAGCT
7750	7760	7770	7780	7790	7800
CTTTGATGAA	AAGGGCGGCT	TGGAATTTAC	GGCCAATGGG	GCAGACTTGA	ACTTGTCTGC
7810	7820	7830	7840	7850	7860
TTTGCCATAT	TCTGCCGCC	AAATTGAAGC	AGCGGACCAC	GCTTTTGAAC	TGACTAACAA
7870	7880	7890	7900	7910	7920
TTACACTTGG	GTTAGAGCCT	TAAGCGCCCA	GATGGGGGTC	GGCGGGGATG	ACTCCTGGGG
7930	7940	7950	7960	7970	7980
GCAGAAGGTC	CACCCGAAT	TCTGCCTGGA	TGCTCAAAAA	GCCCGCCAGC	TTGCCTGGT
7990	8000	8010	8020	8030	8040
GATTTCAGCCC	CTTTTACTAA	AATAAATGCT	ACAATTGACT	TAACAGGATG	AAATTTTAGT
8050	8060	8070	8080	8090	8100
AAAAGCAAAG	CGAGTGAGGA	AGATGGCAAC	GATCAGAGAA	GTGCCAAGGC	AGCCGGCGTG
8110	8120	8130	8140	8150	8160
TCGCTAGCGA	CGGTC.....

FIG. 5G

10	20	30	40	50	60
GATGTACGGG	CCAGATATAC	GCGTTGACAT	TGATTATTGA	CTAGTTATTA	ATAGTAATCA
70	80	90	100	110	120
ATTACGGGGT	CATTAGTTCA	TAGCCCATAT	ATGGAGTTCC	GCGTTACATA	ACTTACGGTA
130	140	150	160	170	180
AATGGCCCGC	CTGGCTGACC	GCCCAACGAC	CCCCGCCCAT	TGACGTCAAT	AATGACGTAT
190	200	210	220	230	240
GTTCCCATAG	TAACGCCAAT	AGGGACTTTC	CATTGACGTC	AATGGGTGGA	CTATTTACGG
250	260	270	280	290	300
TAAACTGCCC	ACTTGGCAGT	ACATCAAGTG	TATCATATGC	CAAGTACGCC	CCCTATTGAC
310	320	330	340	350	360
GTCAATGACG	GTAAATGGCC	CGCCTGGCAT	TATGCCCAGT	ACATGACCTT	ATGGGACTTT
370	380	390	400	410	420
CCTACTTGGC	AGTACATCTA	CGTATTAGTC	ATCGCTATTA	CCATGGTGAT	GCGGTTTTTG
430	440	450	460	470	480
CAGTACATCA	ATGGGCGTGG	ATAGCGGTTT	GACTCACGGG	GATTTCCAAG	TCTCCACCCC
490	500	510	520	530	540
ATTGACGTCA	ATGGGAGTTT	GTTTTGGCAC	CAAAATCAAC	GGGACTTTCC	AAAATGTCGT
550	560	570	580	590	600
AACAACGCCG	CCCCATTGAC	GCAAATGGGC	GGTAGGCGTG	TACGGTGGGA	GGTCTATATA
610	620	630	640	650	660
AGCAGAGCTC	TCTGGCTAAC	TAGAGAACCC	ACTGCTTACT	GGCTTATCGA	AATTAATACG
670	680	690	700	710	720
ACTCACTATA	GGGAGACCCA	AGCTTGGTAC	CGAGCTCGGA	TCCACTAGTA	ACGGCCGCCA
730	740	750	760	770	780
GTGTGCTGGA	ATTCTGCAGA	TATCCATCAC	ACTGGCGGCC	GCTCGAGCAT	GCATCTAGAG
790	800	810	820	830	840
GGCCCTATTC	TATAGTGTCA	CCTAAATGCT	AGAGCTCGCT	GATCAGCCTC	GACTGTGCCT
850	860	870	880	890	900
TCTAGTTGCC	AGCCATCTGT	TGTTTGCCCC	TCCCCCGTGC	CTTCCTTGAC	CCTGGAAGGT
910	920	930	940	950	960
GCCACTCCCA	CTGTCCTTTC	CTAATAAAAT	GAGGAAATTG	CATCGCATTG	TCTGAGTAGG
970	980	990	1000	1010	1020
TGTCATTCTA	TTCTGGGGGG	TGGGGTGGGG	CAGGACAGCA	AGGGGGAGGA	TTGGGAAGAC
1030	1040	1050	1060	1070	1080
AATAGCAGGC	ATGCTGGGGA	TGCGGTGGGC	TCTATGGCTT	CTGAGGCGGA	AAGAACCAGC
1090	1100	1110	1120	1130	1140
TGCATTAATG	AATCGGCCAA	CGCGCGGGGA	GAGGCGGTTT	GCGTATTGGG	CGCTCTTCCG
1150	1160	1170	1180	1190	1200
CTTCCTCGCT	CACTGACTCG	CTGCGCTCGG	TCGTTGCGCT	GCGGCGAGCG	GTATCAGCTC

FIG. 6A

FIG. 6B

FIG. 6C

FIG. 6D

FIG. 6E

FIG. 6F

FIG. 6G

FIG. 6A

1210	1220	1230	1240	1250	1260
ACTCAAAGGC	GGTAATACGG	TTATCCACAG	AATCAGGGGA	TAACGCAGGA	AAGAACATGT
1270	1280	1290	1300	1310	1320
GAGCAAAAGG	CCAGCAAAAG	GCCAGGAACC	GTAAAAAGGC	CGCGTTGCTG	GCGTTTTTCC
1330	1340	1350	1360	1370	1380
ATAGGCTCCG	CCCCCCTGAC	GAGCATCACA	AAAATCGACG	CTCAAGTCAG	AGGTGGCGAA
1390	1400	1410	1420	1430	1440
ACCCGACAGG	ACTATAAAGA	TACCAGGCGT	TTCCCCCTGG	AAGCTCCCTC	GTGCGCTCTC
1450	1460	1470	1480	1490	1500
CTGTTCCGAC	CCTGCCGCTT	ACCGGATACC	TGTCCGCCTT	TCTCCCTTCG	GGAAGCGTGG
1510	1520	1530	1540	1550	1560
CGCTTTCTCA	ATGCTCACGC	TGTAGGTATC	TCAGTTCGGT	GTAGGTTCGT	CGCTCCAAGC
1570	1580	1590	1600	1610	1620
TGGGCTGTGT	GCACGAACCC	CCCGTTCAGC	CCGACCGCTG	CGCCTTATCC	GGTAACTATC
1630	1640	1650	1660	1670	1680
GTCTTGAGTC	CAACCCGGTA	AGACACGACT	TATCGCCACT	GGCAGCAGCC	ACTGGTAACA
1690	1700	1710	1720	1730	1740
GGATTAGCAG	AGCGAGGTAT	GTAGGCGGTG	CTACAGAGTT	CTTGAAGTGG	TGGCCTAACT
1750	1760	1770	1780	1790	1800
ACGGCTACAC	TAGAAGGACA	GTATTTGGTA	TCTGCGCTCT	GCTGAAGCCA	GTTACCTTCG
1810	1820	1830	1840	1850	1860
GAAAAAGAGT	TGGTAGCTCT	TGATCCGGCA	AACAAACCAC	CGCTGGTAGC	GGTGGTTTTT
1870	1880	1890	1900	1910	1920
TTGTTTGCAA	GCAGCAGATT	ACGCGCAGAA	AAAAAGGATC	TCAAGAAGAT	CCTTTGATCT
1930	1940	1950	1960	1970	1980
TTTCTACGGG	GTCTGACGCT	CAGTGGAAACG	AAAACTCACG	TTAAGGGATT	TTGGTCATGA
1990	2000	2010	2020	2030	2040
GCGGATACAT	ATTTGAATGT	ATTTAGAAAA	ATAAACAAAT	AGGGGTTCCG	CGCACATTTT
2050	2060	2070	2080	2090	2100
CCCGAAAAGT	GCCACCTGAC	GTCGACGGAT	CGGGAGATCA	TATCCTGACA	TTCTCTTTAC
2110	2120	2130	2140	2150	2160
CAATAAAAT	AATTTTGTTT	ATTAAATCC	CATTTTGCGA	CAACTTCTTC	CGCAGCTTCC
2170	2180	2190	2200	2210	2220
ATTTGCTCTT	TGGTGTAATC	TTCATCGCCA	ACATGAACTA	AATCACCATT	CTCAACATCT
2230	2240	2250	2260	2270	2280
TCAAGTTTCA	AATCTTGCTT	AATTTGCTTT	AATAATCCAC	CATAGCTGAT	TTGTCGTGTT
2290	2300	2310	2320	2330	2340
CCAGCTAAGG	CATACTCCAA	ATTTTAAATC	ACCACCAAAT	TACGCTCATC	ATCAGCCGTC
2350	2360	2370	2380	2390	2400
ATATAATCAG	CTGATTTTAC	CTCGTATTTT	GCCGTTTCTT	CGGCACTAGC	TTGCAAAGAG

FIG. 6B

2410	2420	2430	2440	2450	2460
TCAGTTCCTT	TACGTTTGTT	AGCTTTAACA	GCCTGCACAT	GCACCACAGG	CTCATAATCA
2470	2480	2490	2500	2510	2520
ACTTTCAAGG	CTTTTGGCCA	TAATTTTGCC	CATTCTGCTT	GTGCTAAATA	ATTATTTGAA
2530	2540	2550	2560	2570	2580
TTCTTAAAT	AACTTGATTT	TACAAACAGC	AACACATGCA	AGTGTTGATT	ATATGACCCG
2590	2600	2610	2620	2630	2640
TCTTGTTTAT	TAACGGTAAT	TTCCGTTGAA	CGTAAATAAC	CCAATAAATT	TTTAGTCACT
2650	2660	2670	2680	2690	2700
TTTTTATAGC	GAGTTAGCTT	ATTAAAGGCT	TTAGTCAAAG	CTCTTAAAGA	CACTTTTAAC
2710	2720	2730	2740	2750	2760
TCCTCTGCTG	AATGAGCGTT	TTTAACGGTT	AAAGTTAAAA	ACAAAAACCG	TCCTTTTAGGC
2770	2780	2790	2800	2810	2820
TCTCTTGCAA	CTGCTTCCGC	AATAATTTGT	TTTAACTGGC	TCGAGTTTTT	CATGCTCCTT
2830	2840	2850	2860	2870	2880
CTCCAATTAC	ACAATGGACA	CAATCGTTTA	TGACAAAACC	ACGTTTGATA	AAGTTTTAAG
2890	2900	2910	2920	2930	2940
TGCTCGCCAA	TCTTACGAAA	ACGCAAACT	TCACCACAAC	CCCGTACATC	ATGTGCCCGT
2950	2960	2970	2980	2990	3000
TTAAATTCTA	AGATTGCCAA	ATATTGCGCA	TAGCGCACAT	TTTCAATCTT	CCGTTCTCGC
3010	3020	3030	3040	3050	3060
CAAGGTCTAA	CTTTGCCATT	TTCAGTTTTA	TCTTCAAAAA	TTTCTGACAT	AAAAAGCTCC
3070	3080	3090	3100	3110	3120
TCCAGTTTAT	CCACGTGAAG	GAGCTGACTA	TCTTTTTCAA	TAAGCTTATA	ACCTTGACAT
3130	3140	3150	3160	3170	3180
CATAGGGCTT	TTCCCCTAGA	ATAGGCTATA	AATCGCAAAT	GATAATCAAC	TCACGTGTTT
3190	3200	3210	3220	3230	3240
CGAGCGGCCA	AACTAGGAAT	TTGCACGTGG	GTTTTTTATTT	TGTCTTTCTT	TCAACCAATT
3250	3260	3270	3280	3290	3300
TATAACCCTA	ATAATACACC	AAAAGCCTAT	AAAATCAATG	GATACAAGCC	CAATTAAGCC
3310	3320	3330	3340	3350	3360
TAATCAAGCT	TGATTTTAAA	AAACTAGTTG	TTGCTAATAG	TATCAAGATA	AGAAGAAAAC
3370	3380	3390	3400	3410	3420
GCCAAAAATT	GCGTTTTTAA	ACCCCAAAAA	GCAGATCAGC	AAAAACCGCT	GAACTGCTTT
3430	3440	3450	3460	3470	3480
TTTTAAACCG	TGGCTTTTCAG	CCACACTGAC	CAGCTGAACC	AGCTGGACCG	TAACGCTTGC
3490	3500	3510	3520	3530	3540
CGCCGCTGGG	CTCGGGAAAA	CAAGGGCTTG	TTTTCCAAGA	CGTCAGGCTT	TTGGTATTGT
3550	3560	3570	3580	3590	3600
CTAGTCTATC	AACTCCTTAA	AGCCTCCAAG	AGGGGCTAAT	ATCGCCTGTA	AGGCTCAATA

FIG. 6C

3610 3620 3630 3640 3650 3660
AGCCCCCTCTA AGTCGATTTA CCGTTGACAG ACAGTTAGAT AGCTAACTGT TAGCTAAAAT

3670 3680 3690 3700 3710 3720
CGCTTAGAAC GCAAATAAGA GCCTTTAAAA TTAACGTTCA AAAATAAAAA AGTTCGAAGG

3730 3740 3750 3760 3770 3780
AGCTAGCGAC TGAACCTTATT TATTTTIGAA TGTTCCAAAC TGACGCAAGT CAGTTACGTT

3790 3800 3810 3820 3830 3840
TGAGCAACGC GAAATCTGAT GCAGGTTTTG ATGGGTTTAG CACAACACAA CTTTCATGTTG

3850 3860 3870 3880 3890 3900
TGTGTAAGTG CGCACTACAT GATAATGCGC ACTACATGAT AATGCGCACT ACATGATAAT

3910 3920 3930 3940 3950 3960
GTGCGCACTA CATGATAATG CGCACTACAT GATAATGTAC ATGATAATGT GCGCACTACA

3970 3980 3990 4000 4010 4020
TGATAATGCG CACTACATGA TAATGCGCAC TACATGATAA TGCGCACTAC ATGATAATGC

4030 4040 4050 4060 4070 4080
GCACTACATG ATAATGCGCA CTACATGATA ATGCGCACTA CATGATAATG TGCACCTACA

4090 4100 4110 4120 4130 4140
CTCCAAATAA ATTGGAGTAA TGCTAAAACC TGTATCAGAA GTCAGCAAGC TGACAACAAA

4150 4160 4170 4180 4190 4200
AAAGGGATAT GCCAACGGAT TTACCGTTGA TCTCCCGATC CCCTATGGTC GACTCTCAGT

4210 4220 4230 4240 4250 4260
ACAATCTGCT CTGATGCCGC ATAGTTAAGC CAGTATCTGC TCCCTGCTTG TGTGTTGGAG

4270 4280 4290 4300 4310 4320
GTCGCTGAGT AGTGCGCGAG CAAAATTTAA GCTACAACAA GGCAAGGCTT GACCGACAAT

4330 4340 4350 4360 4370 4380
TGCATGAAGA ATCTGCTTAG GGTTAGGCGT TTTGCGCTGC TTCGTTAGAA GCAAACCTAG

4390 4400 4410 4420 4430 4440
AGTGTGTTGA GTAGTGCAGT ATCTTAAAT TTTGTATAAT AGGAATTGAA GTTAAATTAG

4450 4460 4470 4480 4490 4500
ATGCTAAAAA TTTGTAATTA AGAAGGAGTG ATTACATGAT TGGCAGCCAG TCTCCGGGCA

4510 4520 4530 4540 4550 4560
ATTAATGAAC TTGGACATGG TTGACGACCC GGTCTTTGCA AGCCGAATTC GACCACACTG

4570 4580 4590 4600 4610 4620
GCGGCCGTTA CTAGGGTATC GATCCGATAA AAAGTTAGGC GACGGCTTTG CCCTGGTGCC

4630 4640 4650 4660 4670 4680
AGCAGACGGT AAGGTCTACG CGCCATTTGC CGGTACTGTC CGCCAGCTGG CCAAGACCCG

4690 4700 4710 4720 4730 4740
GCACTCGATC GTCCTGGAAA ATGAACATGG GGTCTTGGTC TTGATTACCC TTGGCCTGGG

4750 4760 4770 4780 4790 4800
CACGGTCAAA TTAAACGGGA CTGGCTTTGT CAGCTATGTT GAAGAGGGCA GCCAGGTAGA

FIG. 6D

4810	4820	4830	4840	4850	4860
AGCCGGCCAG	CAGATCCTGG	AATTCTGCGA	CCCGGCGATC	AAGCAGGCCA	AGCTGGACGA
4870	4880	4890	4900	4910	4920
CACGGTAATC	GTGACCGTCA	TCAACAGCGA	AACTTTCACA	AATAGCCAGA	TGCTCTTGCC
4930	4940	4950	4960	4970	4980
GATCGGCCAC	AGCGTCCAAG	CCCTGGATGA	TGTATTCAAG	TTAGAAGGGA	AGAATTAGAA
4990	5000	5010	5020	5030	5040
AATGAGCAAT	AAGTTAGTAA	AAGAAAAAAG	AGTTGACCAG	GCAGACCTGG	CCTGGGCTGAC
5050	5060	5070	5080	5090	5100
TGACCCGGAA	GTTTACGAAG	TCAATACAAT	TCCCCCGCAC	TCCGACCATG	AGTCCTTCCA
5110	5120	5130	5140	5150	5160
AAGCCAGGAA	GAAGTGGAGG	AGGGCAAGTC	CAGTTTAGTG	CAGTCCCTGG	ACGGGGACTG
5170	5180	5190	5200	5210	5220
GCTGATTGAC	TACGCTGAAA	ACGGCCAGGG	ACCACTCAAC	TTCTATGCAG	AAGACTTTGA
5230	5240	5250	5260	5270	5280
CGATAGCAAT	TTTAAGTCAG	TCAAAGTACC	CGGCAACCTG	GAAGTCAAG	GCTTTGGCCA
5290	5300	5310	5320	5330	5340
GCCCCAGTAT	GTCAACGTCC	AATATCCATG	GGACGGCAGT	GAGGAGATTT	TCCCCCCCCA
5350	5360	5370	5380	5390	5400
AATTCCAAGC	AAAAATCCGC	TCGCTTCTTA	TGTCAGATAC	TTTGACCTGG	ATGAAGCTTT
5410	5420	5430	5440	5450	5460
CTGGGACAAG	GAAGTCAGCT	TGAAGTTTGA	CGGGGCGGCA	ACAGCCATCT	ATGTCTGGCT
5470	5480	5490	5500	5510	5520
GAACGGCCAC	TTTCGTCGGCT	ACGGGGAAGA	CTCCTTTACC	CCAAGCGAGT	TTATGGTTAC
5530	5540	5550	5560	5570	5580
CAAGTTCTCT	AAGAAAGAAA	ATAACCGCCT	GGCAGTGGCT	CTCTACAAGT	ATCTTTCCGC
5590	5600	5610	5620	5630	5640
CTCCTGGCTG	GAAGACCAGG	ACTTCTGGCG	CATGTCTGGT	TTGTTTCAGAT	CAGTGACTCT
5650	5660	5670	5680	5690	5700
TCAGGCCAAG	CCGCGTCTGC	ACTTGGAGGA	CCTTAAGCTT	ACGGCCAGCT	TGACCGATAA
5710	5720	5730	5740	5750	5760
CTACCAAAAA	GGAAAGCTGG	AAGTCGAAGC	CAATATTGCC	TACCGCTTGC	CAAATGCCAG
5770	5780	5790	5800	5810	5820
CTTTAAGCTG	GAAGTGCGGG	ATAGTGAAGG	TGACTTGGTT	GCTGAAAAGC	TGGGCCCAAT
5830	5840	5850	5860	5870	5880
CAGAAGCGAG	CAGCTGGAAT	TCACTCTGGC	TGATTTGCCA	GTAGCTGCCT	GGAGCGCGGA
5890	5900	5910	5920	5930	5940
AAAGCCTAAC	CTTTACCAGG	TCCGCCTGTA	TTTATACCAG	GCAGGCAGCC	TCTTAGAGGT
5950	5960	5970	5980	5990	6000
TAGCCGGCAG	GAAGTGGGTT	TCCGCAACTT	TGAAGTAAAA	GACGGGATTA	TGTACCTTAA

FIG. 6E

6010 6020 6030 6040 6050 6060
CGGCCAGCGG ATCGTCTTCA AGGGGGCCAA CCGGCACGAA TTTGACAGTA AGTTGGGTCC

6070 6080 6090 6100 6110 6120
GGCTATCACG GAAGAGGATA TGATCTGGGA CATCAAGACC ATGAAGCGAA GCAACATCAA

6130 6140 6150 6160 6170 6180
TGCTGTCCGC TGCTCTCACT ACCCGAACCA GTCCCTCTTT TACCGGCTCT GTGACAAGTA

6190 6200 6210 6220 6230 6240
CGGCCTTTAC GTCATTGATG AAGCTAACCT GGAAAGCCAC GGCACCTGGG AAAAAGTGGG

6250 6260 6270 6280 6290 6300
GGGGCACGAA GATCCTAGCT TCAATGTTCC AGGCGATGAC CAGCATTGGC TGGGAGCCAG

6310 6320 6330 6340 6350 6360
CTTATCCCGG GTGAAGAACA TGATGGCTCG GGACAAGAAC CATGCTTCAA TCCTAATCTG

6370 6380 6390 6400 6410 6420
GTCTTTAGGC AATGAGTCTT ACGCCGGCAC TGTCTTTGCC CAAATGGCTG ATTACGTCCG

6430 6440 6450 6460 6470 6480
GAAGGCTGAT CCGACCCGGG TTCAGCACTA TGAAGGGGTG ACCCACAACC GGAAGTTTGA

6490 6500 6510 6520 6530 6540
CGACGCCACC CAGATTGAAA GCCGGATGTA TGCTCCGGCC AAGGTAATTG AAGAATACTT

6550 6560 6570 6580 6590 6600
GACCAATAAA CCAGCCAAGC CATTTATCTC AGTTGAATAC GCTCACGCCA TGGGCAACTC

6610 6620 6630 6640 6650 6660
CGTCGGTGAC CTGGCCGCCT ACACGGCCCT GGAAAAATAC CCCCCTACC AGGGCGGCTT

6670 6680 6690 6700 6710 6720
CATCTGGGAC TGGATTGACC AAGGACTGGA AAAAGACGGG CACCTGCTTT ATGGGGGCGA

6730 6740 6750 6760 6770 6780
CTTCGATGAC CGGCCAACCG ACTATGAATT CTGCGGGAAC GGCCTGGTCT TTGCTGACCG

6790 6800 6810 6820 6830 6840
GACTGAATCG CCGAAACTGG CTAATGTCAA GGCCCTTTAC GCCAACCTTA AGTTAGAAGT

6850 6860 6870 6880 6890 6900
AAAAGATGGG CAGCTCTTCC TCAAAAACGA CAATTTATTT ACCAACAGCT CATCTTACTA

6910 6920 6930 6940 6950 6960
CTTCTTGACT AGTCTTTTGG TCGATGGCAA GTTGACCTAC CAGAGCCGGC CTCTGACCTT

6970 6980 6990 7000 7010 7020
TGGCCTGGAG CCTGGCGAAT CCGGGACCTT TGCCCTGCCT TGGCCGGAAG TCGCTGATGA

7030 7040 7050 7060 7070 7080
AAAAGGGGAG GTCGTCTACC GGGTAACGGC CCACTTAAAA GAAGACTTGC CTTGGGCGGA

7090 7100 7110 7120 7130 7140
TGAGGGCTTC ACTGTGGCTG AAGCAGAAGA AGTAGCTCAA AAGCTGCCCG AATTTAAGCC

7150 7160 7170 7180 7190 7200
GGAAGGGCGG CCAGATTTAG TTGATTCCGA CTACAACCTA GGCCTGAAAG GAAATAACTT

FIG. 6F

7210	7220	7230	7240	7250	7260
CCAAATTCTC	TTCTCCAAGG	TCAAGGGCTG	GCCGGTTTCC	CTCAAGTATG	CCGGTAGGGA
7270	7280	7290	7300	7310	7320
ATACTTGAAG	CGGCTGCCGG	AATTTACCTT	CTGGCGGGCC	CTGACGGACA	ACGACCGGGG
7330	7340	7350	7360	7370	7380
AGCTGGTTAC	GGCTATGATC	TGGCCCCGTG	GGAAAATGCC	GGCAAGTATG	CCCGCTTGAA
7390	7400	7410	7420	7430	7440
AGACATCAGC	TGCGAGGTCA	AGGAAGACTC	CGTTTTGGTC	AAGACTGCCT	TTACGTTGCC
7450	7460	7470	7480	7490	7500
TGTCGCCTTA	AAGGGTGATT	TAACCGTGAC	CTATGAAGTC	GATGGACGGG	GCAAGATTGC
7510	7520	7530	7540	7550	7560
TGTAACAGCT	GACTTCCAG	GCGCGGAAGA	AGCTGGTCTC	TTGCCAGCCT	TTGGCTTGAA
7570	7580	7590	7600	7610	7620
CCTGGCCCTG	CCAAAAGAAC	TGACCGATTA	CCGCTACTAT	GGTCTGGGAC	CTAATGAGAG
7630	7640	7650	7660	7670	7680
CTACCCAGAC	CGCTTGGAAG	GTAATTACCT	GGGCATCTAC	CAGGGAGCGG	TAAAAAGAA
7690	7700	7710	7720	7730	7740
CTTTAGCCCA	TATCGTCCGC	AGGAAACGGG	CAACCGGAGC	AAGGTTGCT	GGTACCAGCT
7750	7760	7770	7780	7790	7800
CTTTGATGAA	AAGGGCGGCT	TGGAATTTAC	GGCCAATGGG	GCAGACTTGA	ACTTGTCTGC
7810	7820	7830	7840	7850	7860
TTTGCCATAT	TCTGCCGCCC	AAATTGAAGC	AGCGGACCAC	GCTTTTGAAC	TGACTAACAA
7870	7880	7890	7900	7910	7920
TTACACTTGG	GTTAGAGCCT	TAAGCGCCCA	GATGGGGGTC	GGCGGGGATG	ACTCCTGGGG
7930	7940	7950	7960	7970	7980
GCAGAAGGTC	CACCCGGAAT	TCTGCCTGGA	TGCTCAAAAA	GCCCGCCAGC	TTCGCCTGGT
7990	8000	8010	8020	8030	8040
GATTCAGCCC	CTTTTACTAA	AATAAATGCT	ACAATTGACT	TAACAGGATG	AAATTTTAGT
8050	8060	8070	8080	8090	8100
AAAAGCAAAG	CGAGTGAGGA	AGATGGCAAC	GATCAGAGAA	GTGCCAAGGC	AGCCGGCGTG
8110	8120	8130	8140	8150	8160
TCGCTAGCGA	CGGTC.....

FIG. 6G

1 2 3 4 5 6 7 8 9 10

1 2 3 4 5 6 7 8 9 10

10

FIG. 7B